

SWBAT: relate and give examples of voltage

Jan 4-7:20 AM

Welcome!!!

H. Leslie Grebe

- * Pick up:
 - slip of paper (for later)
 - notebook

Opening Question:

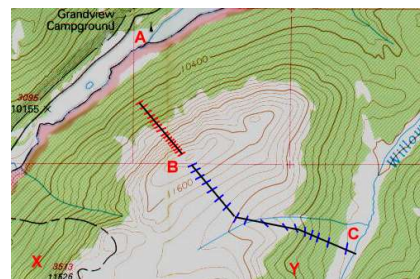
If I'm going to drop something on your head...

WEIGHT/MASS

what are the main factors that might determine how much it will hurt?

HEIGHT

Centering



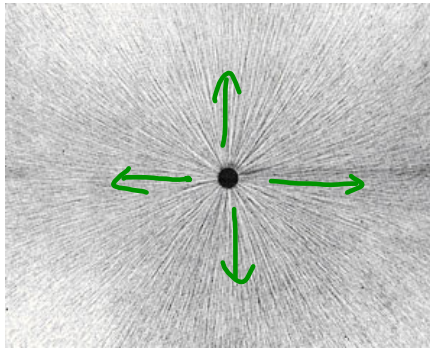
SECA Physics
Thursday 11 February 2016

Sep 7-7:04 AM

Big Idea of Wednesday:

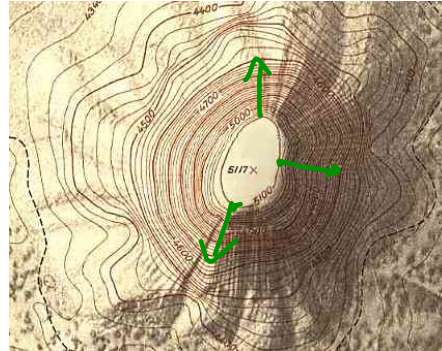
Electric charges are surrounded
by electric fields

ELECTRIC
POTENTIAL



GRAVITATIONAL
POTENTIAL

STORED
ENERGY



TOPOGRAPHY

VOLTAGE ← HEIGHT
POSITIVE TO NEGATIVE DOWNHILL

Feb 2-7:44 AM

Today we need some stuff from other physics...

Holding weight: **BALANCED**
EQUILIBRIUM FORCE
AGAINST GRAVITY

LIFTING weight: WORK AGAINST
GRAVITY

Energy is the ability to do work, measured in Joules...

Feb 18-6:50 AM

Worksheet:

- * Fill in the blank or circle best choice
- * When you are done: look at second column and think about gravity and how it might be related
- * Some of "daily 3 questions" will be directly from this sheet!

Battery Voltage

1.5 -	1.5 -	1.5 - 1.6
"D"	"AA"	"AAA"
1.48	1.49	-1.64
1.55	1.46	1.55
1.49	1.56	1.59
SIZE — HOW LONG THEY LAST		

Feb 18-6:54 AM

How many volts???

Van de Graff generator:



Balloon rubbed against your hair:

Voltage => height
Charge => mass

Wall outlet (that we put plugs in):

Huh???

Feb 22-7:50 AM

Voltage:

is the **potential** based on **position** in an electric field.

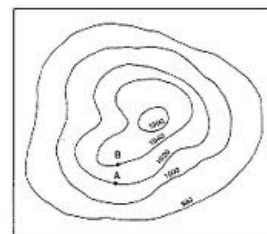
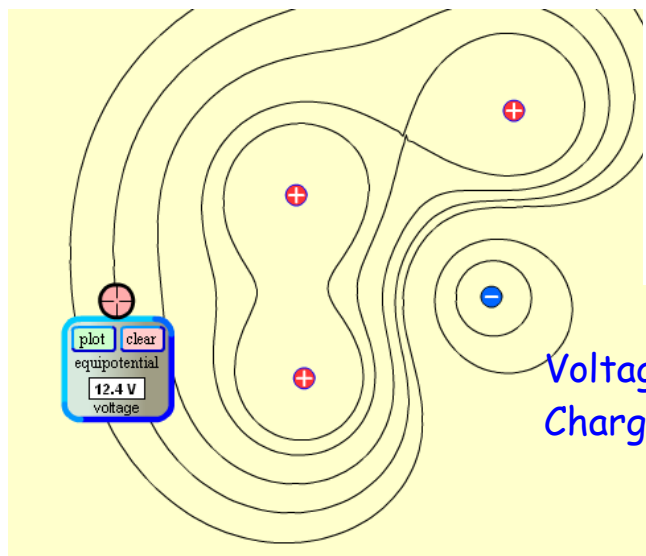


Figure E-1: Isolated Hill

Voltage \Rightarrow height
Charge \Rightarrow mass

Feb 18-6:47 AM

Daily 3 Questions

- * Every day except test/project days
- * 3 Questions on the topics of the day
- * Main source of daily points
- * I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

You can't get your points if you don't have your **NAME!!!**

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

1. To bring the small balloon closer to the big balloon, I have to overcome the repeling force.

2. Voltage is the potential based on position in an electric field.

3. In electricity, voltage is like height is for gravity

Feb 18-6:59 AM